

case, it is the results that owners are

REPRODUCTION, EIGHT YEARS OLD looking for, and not an opportunity to invest their time and money for the advancement of for-

and fire, or, he may have simply a

wood lot problem to solve. In either

estry for its own sake. It is here that the forester has an opportunity to show that his work and its results are eminently practical, that a desirable return is possible; both immediate from the sale of the product, and remote from the increased and accumulating growth, as well as the improvement of the quality of the timber, together with the growing and the reproductive capacity of the soil, In a planting proposition, the return is neces-

early remote. If, however, it can be shown that an area, now producing 1 per cent., for example, is capable of returning 3 per cent. per annum, compound interest, at the final barvest in 40 years, after deducting with interest, the initial cost of stock and planting, together with taxes and fire protection for the full period, is it not good business policy for many owners, whether individual or company, to make such an investment? It will be argued that only owners that are able to hold an area permanently will care to wait 40 years for a return, and that very few individuals would consent to an investment in which the returns are deferred for so long a time. This is true in almost all cases. There are, however, conditions which make such an investment destrable. It is not at all uncommon for plantations to be made, protected, and allowed to mature, in order that the returns may be enjoyed by the next generation of a family, or have them take the place of a life insurance policy.

In practicing forestry, it must be realized at the outset that an investment either of money or marketable material left standing is necessary. The former includes the extra cost of marking the timber to be removed, care in protection of the young growth, fire protection, including piling conferous tops and patrol, and a slight increase in the cost of logging per thousand feet, as the larger the amount of timber removed from a given area the less is the cost per unit. Unless a clear cutting system is employed, some marketable material must be left on the area cut over both for seeding and in some cases for protecting the seed trees from windfall. This comes under the latter form of investment-namely, merchantable material. In return for this investment of merchantable material, the condition of the forest is improved. Instead of removing all of the valuable species and leaving the area to reproduce the undesirable and less valuable, the reproduction of desirable species is provided for, and the future value of the area increased.

For the successful operation of a working plan and the possibility of carrying it out for the full period specified, it is necessary for the forester and owner to meet on common ground. First of all, the forester must get the point of view of the owner, and arrive at a full understanding of his wishes and plans. This means that he cannot always provide for or obtain the results that may be most desirable from a scientific point of view. Many thoroughly destrable silvicultural operations must be ignored, for example, an improvement thinning may be scientifically necessary, but if there is no market for the material, and the owner does not wish to bear the expense, the operation must be delayed until the material reaches a marketable size. The first thing, then, is for the forester to meet the owner's wishes, making such

scientific sacrifices Are Decessary. and not making the blan as he, himself, would prefer.

He then should make a thorough study of the markets of the region and plan his cuttings accordingly. Different localities vary in their ability to absorb a wide range and class of material. Cord wood may have no value, or it may be worth 25 cents or \$1 a cord on the stump, on up and so through the higher class of forest products. Failure to un-

derstand these conditions thoroughly, and the demands of a region, may mean the financial fallure of a plan. Oftentimes these local conditions preclude the possibility of certain provisions highly desirable from a technical standpoint, but which for practical reasons are impossible. in other words, the practical must be given full consideration slong with the technical.

With complete co-operation between forester and owner, and a disposition on the part of both to make the necessary sacrifices, together with an understanding on the part of the former of the really practical side of the problem, there should be less and less cause for the abandonment of the provisions of working plans made for definite periods.

The first working plan in Vermont under the state forest service, was made by the writer while engaged as assistant to the state forester. The area treated is ownd by Dr. William Stanford Stevens of Albans, Vermont, and is located at Enosburg, in the same state. An outline of the work and its provisions follow.

The area involved embraces 900 acres, divided as follows:

Woodland, 360 acres; pasture land, 344 acres; meadow, 196 acres.

The conditions that led the owner to consider the possibilities of forestry were these: The area had been maintained under a more or less diversified system of farm management, and as the owner did not live on or near the property, he wished to be relieved of the care and attention that such an arrangement involved.

To accomplish this purpose it seemed best to bring the three classes of land under a definite and permanent system of management through the provisions and maintenance of a forest work-

The provisions follow:

1. To complete the treatment of the whole tract at the end of ten years.

2. All woodland to be treated is divided into ten equal areas, one to be thinned in the fall and winter of each year 3. All pasture land is divided into ten equal

areas, one to be planted in the spring of each year, 4. All meadow land will be maintained as such. 5. For each wooded area, the kind of thinning to employ is stated; also a rough estimate, together with net value, of the amount to come out.

6. For each area to be planted, the species are selected and the number necessary given, together with the total cost of the work. The woodland is mixed, hardwoods consisting of

sugar maple, yellow birch, beech, and a small percentage of ash, basswood, poplar, fronwood, cherry and elm, with young hemlock and spruce reproduction well established on a few sections, Sugar, maple reproduction is especially good, and with ash and basswood is particularly desirable.

In treating this area either reproduction or improvement thinnings were prescribed, removing all undestrable and over-mature species and such mature species as seemed best for the requirements of the area. Thus only desirable species were left to reproduce as well as to become more valuable through increased growth.

In carrying out the field work for this plan, the area was first surveyed both by boundaries and types of land. It was necessary to ascertain the

showing each class of land together with the specified area to be thinned or planted each year. For example, 1910-1911-1912, etc., denote the year in which the area is to be cut, which I, 1b, 1c; II, III, etc., denote the area and order of planting; I to be planted in 1910, II in 1911, etc. In the written plan a complete statement of the treatment of each section, both cutting and planting, is given for each year. For example:

1910. Woodland, 22 acres will be thinned, la being clear cut for planting.

required to pre-

vent grazing and

killing young

map was prepared

planted material. In the office, a

Planting, 32.41 A will be planted with white pine, namely 1b, c, d and e. 1a is not to be treated; 1d has been staked out. The other acres have definite boundaries. On this area there is sufficient cord wood available to make its removal profitable.

1911. Woodland. 20 acres will be thinned. Of this area 7.8 acres in the lot by the sugar-house have been marked for a reproduction cutting. Tract Vb will

be clear cut for planting. Planting. Tract II. 37.36 A WIII De white pine. All apple trees, brakes and hard back

are to	OU	TLINE FO			
		Sale Price	St	de Price	
	Board.	\$3.50		\$,30	
Years.	Feet.	per M.	Cords.	per M.	Total.
1910	.30,000	\$105.00	130	\$39.00	\$144.00
1911	.22,000	77.00	240	72.00	149.00
		TLINE FO	R PLA	NTING.	
Year.	Block.	Area, Acre	s. Sp	ecles.	Number.
1910		10.56		te pine	12,000
	1 c	2.38	Whi	te pine	2,400
	14	17.24	Whi	te pine	17,240
	1.	2.24	Whi	te pine	2,688
		32,42			34,328
1911	11	37.36	Whi	te pine	37,260
The second second second	acreag			be treat	ted is cut

down from the total 360 by the fact that about 150 acres was being cut over under a contract made previous to the adoption of this plan. It accounts for only 22 and 20 acres coming under management for the years given above, which is, of course, not one-tenth of the total area of woodland.)

It is estimated that the total receipts from the cutting, including the tract being cut under contract above mentioned, will pay the complete cost of planting and seedlings.

The plan just outlined means that at the end of the ten-year period the owner will have his woodland under a good system of forest management. and greatly improved over its present condition. together with 344 acres planted to Norway spruce and white pine, the cost of which being met as before stated by the returns from the area itself. The returns from thinnings which will be made on each section in the period from 1935 to 1945, making each section thinned 25 years old, will give a considerable return. At this time about 400 trees per acre will be removed. From 1950 to 1960 the area will be clear cut by sections and replanted. The total yield from this cutting should be at least 30,000 board feet per acre. The plan also provides for proper fire protection, which is absolutely necessary for the successful maturing of a plantation. It also states the conditions which any contractor must meet who makes the cuttings during the next ten years. These conditions follow:

1. All trees to come out are blazed and stamped with the letter "V."

2. The contractor must take all marked and leave all unmarked trees. 3. Care in felling must be taken in order that young growth and reproduction will not be injured. 4. All sound logs 6 inches at the small end and

over are to go into lumber. 5. Sound down timber and tops of felled trees are to be cut into cord wood. 6. Care must be taken in skidding logs not to in-

jure standing trees and reproduction. 7. The contractor will be liable to a penalty of twice the value of any tree that is cut not bearing

the official stamp. 8. All work is subject to inspection. The state forester also agrees to mark the trees

to cut each year.

While the owner himself will not enjoy this return, the plan offers an example of the instance cited previously by which an individual is willing to make a long-time investment in order to make it possible for the next generation in his family to enjoy the results.

Gotham Fat Women Outnuy



EW YORK.-Why are there so many fat women?" A man rushing upon his doom asked this question. He spoke of the increasing prevalence of large feminine persons, not with admiration, but with profound dismay. "Why are there so many fat women?" he reiterated. "I have watched the passing throng in several cities and while one fat man was passing I have counted not fewer than four fat women. This ratio has held true whenever and wherever I have had occasion to take observations.

"These women are, for the most part, between thirty-five and fifty-five out the first year years old. They either waddle ponderously or propel themselves forward with not the slightest perceptible freedom of motion, looking the while like statues moving on rollers. The alarming corpulence of our middleaged women is getting serious. They seem to be fattening for a slumberous old age.

> "If one looks about in New York theaters and restaurants the conclusion that the New York women seen there are about twenty pounds overweight looms large and inevitable. And in those restaurants lies the ex- wear them."

maide clected Tonigh broaden matron After ti and rain may Nov. 3.-Th he was 'st tion of the But while Saturday. The perception of 1. viduals who know ab inding matter. They are the a decis made suits and gowi ment stores. One or woman who draws a la the most conservative York, said:

"New York women a enormous. Today the tomer in our store weighs

"The reason why Americ do not look well in the hot. because they are too lay small hips and they can affe their gowns pulled in at Skirts are narrower than year, and I am sure I do ; how New York women are

Moving Picture Shows Grip Chicago

A HICAGO.—The moving picture show is putting baseball far in the shade in its bid for popularity. In Chicago there are four persons who attend moving picture shows for every one that attends a baseball game. Moving picture "fans" are becoming more and more numerous, and their patronage is becoming so popular that the proprietors are giving more than 30 per cent, more pictures for a nickel than they did a year ago. The records of the moving picture bureau of the police department in charge of Sergt. Jeremiah O'Connor show that there are 556 shows in Chicago. Besides these, all of the large vaudeville houses are running moving pictures, and the craze has reached such proportions that the centrally located theaters even are presenting pictures be-

tween the acts. established in 1908. The first neigh- postal cards offered for sale in Chihood theaters were located in modeled store buildings. The public took to them quickly and they grew in number rapidly. All were not successful, principaly because every Tom, Dick and Harry who had a few doi- police censors order cut every scene lars to invest bought a moving-picture which if enacted within their sight machine, rented a place and made a would be prohibited by law if prebid for patronage.



Those handled by experienced showmen prospered. A moving-picture inspection bureau was established, and after the usual red tape and delay it got down to working order. The Chicago bureau has been so well handled at all times that it is acknowledged to be the best in the United States. Seventy thousand feet of films are inspected every week by the bureau.

The seven police officers in charge are responsible for the supervision and censorship of all the theaters in the city, their inspections extending to-The first moving-picture shows were | both sides of the footlights. Souvenir

> From two to ten sets of pictures are rejected each week, "Cutouts" are ordered in perhaps an average of a dozen sets of films each week. The sented in reality.

Kansas Hiking Clubs on Long Trudge

CET THERE



T OPEKA, Kan.-If walking is good exercise for the city man on Sunday, why is it not good for him on any other day of the week? That is a question which not less than twenty hiking clubs are considering in as many Kansas towns. Golf and automobiling are threatened by this new system of exercise. Edward Payson Weston when he walked through Kansas a year or more ago started the idea of hiking clubs among the business men of the towns and cities. In forty or fifty towns clubs were formed to go on walks on Sunday morning Sunday was chosen because it was the only day the business men could devote to exercise. Now they are planning in several towns to make two or three hikes each week. An early breakfast five or six miles out in the hearty eaters.

country is something to think about. The business men organize a walking club, the Peripatetic club or the Weston Wabblers or something like that, and select a captain. It is thecaptain's business to pick out the road over which the hike will be made on Sunday morning and notify his company. Another of his duties is to have a conference with Mrs. Jones or Mrs. Smith or Mrs. Brown, who happensto live five or six miles out on the road selected, and arrange with her to have ready a steaming bot breakfast of fried chicken, brown gravy, biscuits and alfalfa honey at seven o'clock. Usually the price for such a Sunday morning breakfast out in the

country is 50 cents a plate. During the last summer the farmers' wives who have prepared these feasts for the hikers have been astir early. They watch down the road for the column of walkers to come over the hill, and then they take the biscuits and fried chicken out of the oven. The table is always set when the men arrive, and it is the evidence of every Kansas woman who has enmorning walk and a fried chicken tertained the hikers that they are

Western Cities Are to Have Pennies

S ALT LAKE CITY, Utah,-After years of turning up noses at cheap people of the east who would need such a small coin as a penny in doing their daily business, there has been developed a real call in the west for these same coins. It is largely due to the feeling of the housewives that much money could be saved in their buying at the shops and in other ways if they had the small pieces of under way for the banks to import already advertising wares for sums that change into pennies.

When an inquiry was recently made into this subject by persons interested it was found that less than 20,000 pennies were in Salt Lake City. Many said they had difficulty in disposing of them. As in other cities in the west, the nickel had been the small coin, for the shopkeeper.



and the easy spenders had treated even that somewhat contemptuously. money. A movement has been put The nowspapers sell for five cents a copy. Children have been brought up the coins, and some of the shops are to the idea of asking for a nickel for candy and spending it.

Now the cost of living is coming home even to the free-spending west. and housewives have found that it is not only well to look after the nickels, but the pennies, too. It is pointed out of them were held by the banks, which that under the present system if a purchase comes to an odd amount the total is put up to make the even nickel